

IN THE CLAIMS:

The following listing of claims will replace all prior versions, and listings, of claims
in the application:

1. (Cancelled)
2. (Cancelled)
3. (Currently Amended) ~~The A roll of claim 2, comprising:~~

a core; and

a coating comprising a silicate glass material provided over the core, wherein
the silicate glass material can be electrically charged and discharged, and comprises:

silica, from about 40 mol% to about 95 mol%;
soda, from about 5 mol% to about 60 mol%;
alumina, from 0 to about 7 mol%;
phosphate, from 0 to about 5 mol%;
potash, from 0 to about 10 mol%;
titania, from 0 to about 20 mol%;
vanadium penta-oxide, from 0 to about 10 mol%;
chromia, from 0 to about 8 mol%;
iron oxide, from 0 to about 5 mol%;
nickel, from 0 to about 5 mol%;
silver, from 0 to about 5 mol%; and
gold, from 0 to about 5 mol%.

4. (Original) The roll of claim 3, wherein the glass material comprises:
silica, about 40 wt%;
soda, about 20 wt%;
alumina, about 1.5 wt%;
phosphate, about 4 wt%;
potash, about 7 wt%;
titania, about 12 wt%;
vanadium penta-oxide, about 6 wt%;
chromia, about 4 wt%;
iron oxide, about 3.5 wt%; and
NiO (Nickel Oxide), about 2 wt%.
5. (Cancelled)

6. (Currently Amended) ~~The A roll of claim 1, comprising:~~
a core; and
a coating comprising a silicate glass material provided over the core, wherein
the glass silicate material can be electrically charged and discharged, and the coating has an
arithmetical mean roughness Ra of less than about 1 μm and a maximum waviness of less
than about 1 μm .

7. (Currently Amended) ~~The A roll of claim 1, comprising:~~
a core; and
a coating comprising a silicate glass material provided over the core, wherein
the glass silicate material can be electrically charged and discharged, and the coating has an
electrical resistivity of from about $1 \times 10^4 \Omega \cdot \text{cm}$ to about $1 \times 10^{14} \Omega \cdot \text{cm}$.

8. (Currently Amended) ~~The A roll of claim 1, comprising:~~
a core; and
a coating comprising a silicate glass material provided over the core, wherein
the glass silicate material can be electrically charged and discharged, and the coating has a
hardness of at least about 4 GPa Knoop.

9. (Currently Amended) ~~The A roll of claim 1, comprising:~~
a core; and
a coating comprising a silicate glass material provided over the core, wherein
the glass silicate material can be electrically charged and discharged, and the core has a first
coefficient of thermal expansion and the coating has a second coefficient of thermal
expansion that differs from the first coefficient of thermal expansion by less than about 1
ppm/ $^{\circ}\text{C}$.

10. (Currently Amended) The roll of claim 4 3, wherein the glass material is
chemically resistant to toner and paper fibers.

11. (Currently Amended) The roll of claim 4 3, wherein the core comprises a
metal.

12. (Currently Amended) ~~The A roll of claim 1, comprising:~~
a core; and
a coating comprising a silicate glass material provided over the core, wherein
the glass silicate material can be electrically charged and discharged, and the core comprises
a non-metallic material having a metal coating on which the coating is formed.

13. (Currently Amended) An electrostatographic imaging apparatus comprising ~~a~~
the roll according to claim 4 3.

14. (Cancelled)

15. (Cancelled)

16. (Currently Amended) ~~The A charge donor roll of claim 15, comprising:~~

a core; and

a coating comprising a silicate glass material formed over the core, wherein
the coating can be electrically charged and discharged, and the silicate glass material
comprises:

silica, from about 40 mol% to about 95 mol%;

soda, from about 5 mol% to about 60 mol%;

alumina, from 0 to about 7 mol%;

phosphate, from 0 to about 5 mol%;

potash, from 0 to about 10 mol%;

titania, from 0 to about 20 mol%;

vanadium penta-oxide, from 0 to about 10 mol%;

chromia, from 0 to about 8 mol%;

iron oxide, from 0 to about 5 mol%;

nickel, from 0 to about 5 mol%;

silver, from 0 to about 5 mol%; and

gold, from 0 to about 5 mol%.

17. (Original) The charge donor roll of claim 16, wherein the glass material
comprises:

silica, about 40 wt%;

soda, about 20 wt%;

alumina, about 1.5 wt%;

phosphate, about 4 wt%;

potash, about 7 wt%;

titania, about 12 wt%;

vanadium penta-oxide, about 6 wt%;

chromia, about 4 wt%;

iron oxide, about 3.5 wt%; and

Ni, about 2 wt%.

18. (Cancelled)

19. (Currently Amended) ~~The A charge donor roll of claim 14, comprising:~~

a core; and

a coating comprising a silicate glass material formed over the core, wherein the coating can be electrically charged and discharged, and the coating has an arithmetical mean roughness Ra of less than about 1 μm and a maximum waviness of less than about 1 μm .

20. (Currently Amended) ~~The A charge donor roll of claim 14, comprising:~~
a core; and

a coating comprising a silicate glass material formed over the core, wherein the coating can be electrically charged and discharged, and the coating has an electrical resistivity of from about $1 \times 10^4 \Omega\cdot\text{cm}$ to about $1 \times 10^{14} \Omega\cdot\text{cm}$.

21. (Currently Amended) ~~The A charge donor roll of claim 14, comprising:~~
a core; and

a coating comprising a silicate glass material formed over the core, wherein the coating can be electrically charged and discharged, and the coating has a hardness of at least about 4 GPa Knoop.

22. (Currently Amended) ~~The A charge donor roll of claim 14 comprising:~~
a core; and

a coating comprising a silicate glass material formed over the core, wherein the coating can be electrically charged and discharged, and the core has a first coefficient of thermal expansion and the outer coating has a second coefficient of thermal expansion that differs from the first coefficient of thermal expansion by less than about 1 ppm/ $^{\circ}\text{C}$.

23. (Currently Amended) The charge donor roll of claim ~~14~~ 16, wherein the glass material is chemically resistant to toner and paper fibers.

24. (Currently Amended) The charge donor roll of claim ~~14~~ 16, wherein the core comprises a metal.

25. (Currently Amended) ~~The A charge donor roll of claim 14 comprising:~~
a core; and

a coating comprising a silicate glass material formed over the core, wherein the coating can be electrically charged and discharged, and the core comprises a non-metallic material having a metal coating on which the coating is formed.

26. (Currently Amended) An electrostatographic imaging apparatus comprising a charge donor roll according to claim ~~14~~ 16.

27. (Cancelled)

28. (Cancelled)

29. (Cancelled)

30. (Withdrawn - Currently Amended) ~~The A method of claim 29~~ of making a roll, comprising providing a coating over a core, the coating comprising a silicate glass material that can be electrically charged and discharged, wherein the silicate glass material comprises:

silica, from about 40 mol% to about 95 mol%;
soda, from about 5 mol% to about 60 mol%;
alumina, from 0 to about 7 mol%;
phosphate, from 0 to about 5 mol%;
potash, from 0 to about 10 mol%;
titania, from 0 to about 20 mol%;
vanadium penta-oxide, from 0 to about 10 mol%;
chromia, from 0 to about 8 mol%;
iron oxide, from 0 to about 5 mol%;
nickel, from 0 to about 5 mol%;
silver, from 0 to about 5 mol%; and
gold, from 0 to about 5 mol%.

31. (Withdrawn) The method of claim 30, wherein the glass material comprises:

silica, about 40 wt%;
soda, about 20 wt%;
alumina, about 1.5 wt%;
phosphate, about 4 wt%;
potash, about 7 wt%;
titania, about 12 wt%;
vanadium penta-oxide, about 6 wt%;
chromia, about 4 wt%;
iron oxide, about 3.5 wt%; and
Ni, about 2 wt%.

32. (Cancelled)

33. (Withdrawn - Currently Amended) ~~The A method of claim 27~~ of making a roll, comprising providing a coating over a core, the coating comprising a silicate glass material that can be electrically charged and discharged, wherein the coating has an arithmetical mean roughness Ra of less than about 1 μm and a maximum waviness of less than about 1 μm .

34. (Withdrawn - Currently Amended) ~~The A method of claim 27~~ of making a roll, comprising providing a coating over a core, the coating comprising a silicate glass material that can be electrically charged and discharged, wherein the coating has an electrical resistivity of from about $1 \times 10^4 \Omega \cdot \text{cm}$ to about $1 \times 10^{14} \Omega \cdot \text{cm}$.

35. (Withdrawn - Currently Amended) ~~The A method of claim 27~~ of making a roll, comprising providing a coating over a core, the coating comprising a silicate glass material that can be electrically charged and discharged, wherein the coating has a hardness of at least about 4 GPa Knoop.

36. (Withdrawn - Currently Amended) The method of claim-27 30, wherein the core has a first coefficient of thermal expansion and the coating has a second coefficient of thermal expansion that differs from the first coefficient of thermal expansion by less than about 1 ppm/°C.

37. (Withdrawn - Currently Amended) The method of claim-27 30, wherein the glass material is chemically resistant to toner and paper fibers.

38. (Withdrawn - Currently Amended) The method of claim-27 30, wherein the coating is applied on the core by electrostatic spraying.

39. (Withdrawn - Currently Amended) The method of claim-27 30, wherein the coating is applied on the core by wet spraying.

40. (Withdrawn - Currently Amended) The method of claim-27 30, wherein the core comprises an electrically conductive material on which the outer coating is applied.

41. (Withdrawn - Currently Amended) The method of claim-27 30, wherein the core comprises a metal outer surface on which the coating is formed.

42. (Currently Amended) The roll of claim-1 3, wherein the coating has a thickness between about 0.1 mm to about 0.3 mm.

43. (Currently Amended) The charge donor roll of claim-14 16, wherein the coating has a thickness between about 0.1 mm to about 0.3 mm.

44. (Currently Amended) The method of claim-27 30, wherein the coating has a thickness between about 0.1 mm to about 0.3 mm.